

## INTERNATIONAL SEARCH REPORT

PCT/NL2004/000735

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E04F15/02 E04F13/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E04F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 590 731 A (DEGOOYER LONNIE C) 27 May 1986 (1986-05-27) column 2, line 18 - column 4, line 23; figures 1-3	1-3, 11-15
Y	-----	4, 7, 8
X	US 5 323 575 A (YEH TZUNG-JZNG) 28 June 1994 (1994-06-28) column 2, line 10 - line 67; figures 1,2	1, 2, 11-15
X	FR 2 063 391 A (LEGLE STE LEGRAND LEBOUC) 9 July 1971 (1971-07-09) page 1, line 37 - page 4, line 27; figures 1-3	1, 4, 7, 10, 14, 15
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 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search	Date of mailing of the International search report
24 January 2005	16/02/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Ayiter, J

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 544 604 A (FUKUVI CHEM IND CO) 2 June 1993 (1993-06-02) column 5, line 14 – column 12, line 19; figures 1-5, 7, 8 -----	4, 7, 8
A		1-3, 11-15

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

PCT/NL2004/000735

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4590731	A	27-05-1986	NONE			
US 5323575	A	28-06-1994	NONE			
FR 2063391	A	09-07-1971	FR	2063391 A5		09-07-1971
EP 0544604	A	02-06-1993	JP	2510547 Y2		11-09-1996
			JP	5047187 U		22-06-1993
			JP	2572505 B2		16-01-1997
			JP	5346056 A		27-12-1993
			DE	69209451 D1		02-05-1996
			DE	69209451 T2		05-09-1996
			EP	0544604 A1		02-06-1993
			US	5418036 A		23-05-1995
			KR	214889 B1		02-08-1999